Serial No.: 10/813,747

Filed : March 29, 2004

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## INFORMATION DISCLOSURE STATEMENT

In accordance with their duty of disclosure under 37 C.F.R. §1.56, applicants direct the Examiner's attention to the references listed below which are also listed on the PTO-1449 form attached hereto as **Exhibit A**.

Items 1-24 are U.S. Patents or U.S. Patent Application Publications. No copies of these items are attached hereto as permitted by 37 C.F.R. §1.98(a)(2)(ii).

The above-identified application claims benefit under 35 U.S.C. §120 of U.S. Serial No. 10/030,411, filed April 11, 2002, now U.S. Patent No. 7,122,178, issued October 17, 2006. Because items 25-74 were previously submitted to the U.S. Patent and Trademark Office or cited in connection with U.S. Serial No. 10/030,411, copies of these items are not submitted herewith as permitted by 37 C.F.R. §1.98(d).

- U.S. Patent No. 5,197,985 issued to Caplan et al. on March 30, 1993;
- 2. U.S. Patent No. 5,226,914 issued to Caplan et al. on July 13, 1993;
- U.S. Patent No. 5,486,359 issued to Caplan et al. on January 23, 1996;
- U.S. Patent No. 5,591,625 issued to Gerson et al. on January 7, 1997;

Serial No.:

10/813,747

Filed

March 29, 2004

Page 8

5. U.S. Patent No. 5,811,094 issued to Caplan on September 22, 1998;

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- 6. U.S. Patent No. 5,827,740 issued to Pittenger on October 27, 1998;
- 7. U.S. Patent No. 5,837,539 issued to Caplan et al. on November 17, 1998;
- 8. U.S. Patent No. 5,922,597 issued to Verfaillie et al. on July 13, 1999;
- 9. U.S. Patent No. 5,980,887 issued to Isner et al. on November 9, 1999;
- 10. U.S. Patent No. 6,022,540 issued to Bruder et al. on February 8, 2000;
- 11. U.S. Patent No. 6,087,113 issued to Caplan et al. on July 11, 2000;
- 12. U.S. Patent No. 6,261,549 issued to Fernandez et al. on July 17, 2001;
- 13. U.S. Patent No. 6,322,784 issued to Pittenger et al. on November 27, 2001;
- 14. U.S. Patent `No. 6,335,195 issued to Rodgers et al. on January 1, 2002;
- 15. U.S. Patent No. 6,387,367 issued to Davis-Sproul et al. on May 14, 2002;

Serial No.: 10/813,747

Filed : March 29, 2004

Page 9

- 16. U.S. Patent No. 6,387,369 issued to Pittenger et al. on May 14, 2002;
- 17. U.S. Patent No. 6,645,727 issued to Thomas et al. on November 11, 2003;
- 18. U.S. Patent No. 6,709,864 issued to Pittenger et al. on March 23, 2004;
- 19. U.S. Patent No. 6,875,430 issued to McIntosh et al. on April 5, 2005;
- 20. U.S. Patent No. 7,122,178 Issued to Simmons et al., on October 17, 2006;
- 21. U.S. Application Publication No. 2004-0107453, published June 3, 2004;
- 22. U.S. Application Publication No. 2006-0008452, published January 12, 2006;
- 23. U.S. Application Publication No. 2005-0158289, published July 21, 2005;
- 24. U.S. Application Publication No. 2005-0281790, published December 22, 2005;
- 25. PCT International Publication No. WO 01/011011, published February 15, 2001;
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- 64. Simmons, P.J., et al. (1994) "Isolation, Characterization and Functional Activity of Human Marrow Stromal Progenitors in Hemopoiesis" Advances in Bone Marrow Purging and Processing: Fourth Int'l Symposium 389, pages 271-280;
- 65. Simmons et al. (1987) Nature 328, page 429;
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This Information Disclosure Statement is being submitted under 37 C.F.R. §1.97(b)(3), and therefore no fee is deemed

Serial No.: 10/813,747 Filed March 29, 2004

Page 14

necessary. The Examiner is respectfully requested to make these references of record in the present application by initialing and returning a copy of the enclosed Form PTO 1449.

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorney invites the Examiner to telephone him at the number provided below.

No fee is deemed necessary in connection with the filing of this Amendment in Response to December 15, 2006 Office Action and Information Disclosure Statement. However, if any fee is required authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-3125.

Respectfully submitted,

hereby certify this that correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:

Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

John P. White

Req. No. 28,678

1/16/107

Date

John B. White

Registration No. 28,678 Attorney for Applicants Cooper & Dunham LLP 1185 Avenue of the Americas New York, New York 10036 (212) 278-0400

Form PTO-1449 JAN 2 2 2007 U.S. Department of Commerce Patent and Trademark Office

FORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Examiner

Initials

EXAMINER SIGNATURE

Cite

No.1

**Foreign Patent Document** 

Country Code Number Kind Code (If known)

01/011011

Application Number	10/813,747
Filing Date	March 29, 2004
First Named Inventor	Paul Simmons et al.
Art Unit	1644
Examiner Name	M. Belyavskyi
Attorney Docket No.	75990-B/JPW/BJA

Examiner Initials	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2 (If known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		
	US	5,197,985	03-30-1993	Caplan et al.		
	US	5,226,914	07-13-1993	Caplan et al.		
	US	5,486,359	01-23-1996	Caplan et al.		
	US	5,591,625	01-07-1997	Gerson et al.		
	US	5,811,094	09-22-1998	Caplan		
	US	5,827,740	10-27-1998	Pittenger		
	US	5,837,539	11-17-1998	Caplan et al.		
	US	5,922,597	07-13-1999	Verfaillie et al.		
	US	5,980,887	11-09-1999	Isner et al.		
	US	6,022,540	02-08-2000	Bruder et al.		
	US	6,087,113	07-11-2000	Caplan et al.		
	US	6,261,549	07-17-2001	Fernandez et al.		
	US	6,322,784	07-17-2001	Pittenger et al.		
	US	6,335,195	01-01-2002	Rodgers et al.		
	US	6,387,367	05-14-2002	Davis-Sproul et al.		
-	US	6,387,369	05-14-2002	Pittenger et al.		
	US	6,645,727	11-11-2003	Thomas et al.		
	US	6,709,864	03-23-2004	Pittenger et al.		
	US	6,875,430	04-05-2005	McIntosh et al.		
	บร	7,122,178	10-17-2006	Simmons et al.		
	US	2004-0107453	06-03-2004	Furcht		
	US	2006-0008452	01-12-2006	Simmons		
	US	2005-0158289	07-21-2005	Simmons		
	US	2005-0281790	12-22-2005	Simmons		

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds of Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Nind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English Language Translation is attached.

FOREIGN PATENT DOCUMENTS

**Publication Date** 

MM-DD-YYYY

02-15-2001

DATE CONSIDERED

Applicants: Paul Simmons et al.

 $T^6$ 

Serial No.: 10/813,747 Filed: March 29, 2004

Exhibit A

Name of Patentee or

**Applicant of Cited Document** 

Form PTO-1449		U.S. Departr	nent of Commerce	Application Number	10/813,747		
			Patent and Trademark Office	Filing Date	March 29, 2		
					First Named Inventor	Paul Simmon	ıs
INFORMATION DISCLOSU (Use several sheets if necessary			RE STATEMENT		et al.		
					Art Unit	1644	
OSC SCV		sireets it irecessury	')	Examiner Name	M. Belyavs		
<del> </del>					Attorney Docket No.	75990-B/JPW/	/BJ/
			NON PATEN	T LITERATURE DOCUM	MENTS		
Examiner Initials	Cite No. <sup>1</sup>	Include name of the a (book, magazine, journ	nal, serial, sympos	AL LETTERS), title of the a ium, catalog, etc.) date, page ind/or country where publish	(s), volume-issue number	), title of the item r(s), publisher, city	T <sup>2</sup>
		Alberico et a	al. (1987)	Blood 69, page	: 1120	_	
		Allen, T.D., Lymphoid Dif 38-67	"Microenv ferentiati	rironments in Ha on" CIBA Found.	emopoietic ar Symposium 84	nd ., pages	
-		Allen et al.	(1990) Im	munol. Ser. 49,	page 1		
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		Anklesaria e	t al. (198	9) Blood 74, pa	ge 1144		
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		Bennett et al	l. (1991)	J. Cell Sci. 99	, page 131		
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·		Castro-Malasp Bone Marrow E Progeny" Bloo	Fibroblast	. (1980) "Chara Colony-Forming e 289-301	cterization o Cells and Th	f Human eir	
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	1	Dexter et al. Proliferation Physiol. 91,	of Haemo	Conditions Cont poietic Stem Ce 344	rolling the lls in Vitro"	J. Cell	
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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Applicant is to place a checkmark here if English language Translation is attached.

Form PTC	<u> </u>	140 II S Department of Commerce	Application Number	10/813,747	-			
Form PIC	<b>J</b> -14	449 U.S. Department of Commerce Patent and Trademark Office	Filing Date	March 29, 2	2004			
			First Named Inventor	Paul Simmon	ıs			
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			Attorney Docket No.	75990-B/JPW				
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		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.						
		Dexter et al. (1984) Kroc Found. Ser.	18, pages 57	7-96				
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	ŀ	Friedenstein (1980) "Stromal Mechanis Cloning in Vitro and Retransplantatio of Bone Marrow Transplantation, pages	n in Vivo" In					
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	]	Gronthos, S., et al. (1994) "The STRO Human Bone Marrow Contains the Osteog 84, pages 4164-4173	-1+ Fraction enic Precurso	of Adult ors, Blood				
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	I	Keating et al. (1982) Nature 298, pag	e 280					
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EXAMINER SIGNATURE		DATE CONSIDERED						

<sup>\*</sup>EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'Applicant is to place a checkmark here if English language Translation is attached.

Form P	ГО-1	449 U.S. Department of Commerce	Application Number	10/813,747			
	~ •	Patent and Trademark Office	Filing Date	March 29, 2	2004		
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			Attorney Docket No.	75990-B/JPW	/BJA		
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Examiner Initials	Cite No.1						
		Knopse et al. (1966) Blood 28, page					
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		Simmons and Gronthos (1991) Int'l J. 408 (abstract)	Cell Cloning	9, page			
		Simmons, P.J., et al. (1994) "Isolat and Functional Activity of Human Mar in Hemopoiesis" Advances in Bone Mar Processing: Fourth Int'l Symposium 3	rrow Stromal Pr rrow Purging an	ogenitors			

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Applicant is to place a checkmark here if English language Translation is attached.

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EXAMINER SIGNATURE

Form P7	<b>O-1</b>	449 U.S	S. Department of Commerc	ce A	pplication Number	10/813,747	
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		Simmons et al.	(1987) Nature 328,	page	429		
		Simmons and Tor	cok-Storb (1991) Blo	ood 7	8, page 55		,
		Simmons and Tor	cok-Storb (1991) Blo	ood 7	8, page 2848		
		Tavassoli and E 195	Friedenstein (1983)	Ann.	J. Hematol.	15, page	
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		Van Vlasselaer	et al. (1994) Blood	84,	page 753		
		Waller et al. (	1995) Blood 85, pag	je 242	22		
	İ	Weiss (1976) An	atomical Record 186	, pag	ge 161		
		Zoltowska et al 19, pages 59-61	. (2001) Arch. Immu	inol.	Ther. Exp.	(Warsz)	
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